# mung Documentation

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The mung package implements tools for easier manipulation of the MUSCIMA++ dataset. Download the dataset here:

https://github.com/OMR-Research/muscima-pp/

A description of the dataset is on the project's homepage:

https://ufal.mff.cuni.cz/muscima

And more thoroughly in an arXiv.org publication:

https://arxiv.org/pdf/1703.04824.pdf

This pacakge is licensed under the MIT license (see LICENSE.txt file). The package authors are Jan Hajič jr and Alexander Pacha. You can contact them at:

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```

Questions and comments are welcome! This package is also hosted on github, so if you find a bug, submit an issue (or a pull request!) there:

https://github.com/OMR-Research/mung

## CHAPTER 1

### Requirements

Python 3.6, otherwise nothing beyond the requirements.txt file: lxml and numpy. If you want to apply pitch inference, you should also get music21.

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Installation

If you have pip, just run:

pip install mung

If you don't have pip, then you should get it. Or use the Anaconda distribution.

### CHAPTER 3

First steps

#### Let's first download the dataset:

```
curl https://github.com/OMR-Research/muscima-pp/releases/download/v2.0/MUSCIMA-pp_v2.

O.zip > MUSCIMA-pp_v2.0.zip
unzip MUSCIMA-pp_v2.0.zip
cd MUSCIMA-pp_v2.0
```

Take a look at the dataset's README.md file first. You can also read it online:

#### https://ufal.mff.cuni.cz/muscima

Please make sure you understand the license requirements – the data is licensed as CC-BY-NC-SA 4.0, and because it is built over a previous dataset, there are *two* attributions required.

Next, we fire up ipython (or just the plain python console, but definitely check out ipython if you don't use it!) and parse the data:

In docs, we now have a list of Node lists for each of the 140 documents.

Now that the dataset has been parsed, we can try to do some experiments! We can do for example symbol classification. Go check out the tutorial!

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## CHAPTER 5

#### Indices and tables

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